Michael J. Dvorak

Work Address

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Objective

Seeking a scientific programming/software engineering position where I can use my applied math education and practical experience in a team problem solving environment.

Relevant Experience

Argonne Regional Climate Center May 2001—present
Research Fellowship

- Create a Java modeling interface for the PSU/NCAR MM5 atmospheric model
- Performing a multidecadal run of the MM5 atmospheric model over the United States
- Comparing empirical climate data with MM5 output on a decadal timescale to study the effects of increased CO_2 in the atmosphere
- Running the MM5 model in a super computing environment

Mathematics and Computer Science Division, Argonne May 2000—August 2000
Research Fellowship

- Assisted in the design of a data compression API
- Began the implementation of the compression library
- Wrote a research paper titled "Integer Data Compression for Large Scale Computations" (http://www.mcs.anl.gov/~dvorak/papers/)

Gold'n Plump Poultry July 1998—October 1999
Electronic Data Specialist

- Designed and built USDA regulation and process control relational databases
- Created implementation solutions for portable data collection
- Installed software and hardware at various plants

Education

Bachelor of Science in Computational Mathematics May 2001
University of Minnesota Duluth

- Minor in Computer Science
- UMD Math Club President, 2000—2001
- UMD Math Department Undergraduate Representative, Fall 2000
- Awarded the Sylvan Burgstaller Senior Service Award, April 2001
- Awarded research grant to study dynamical systems Summer 2000—Spring 2001

Computing Skills

Linux, Unix, Windows 9x, C, C++, Java, Fortran, CVS, MM5, GrADS, Vis5D, Cave5d, LaTex, Microsoft Access, Microsoft Excel, HTML

References and letters of recommendation provided upon request.